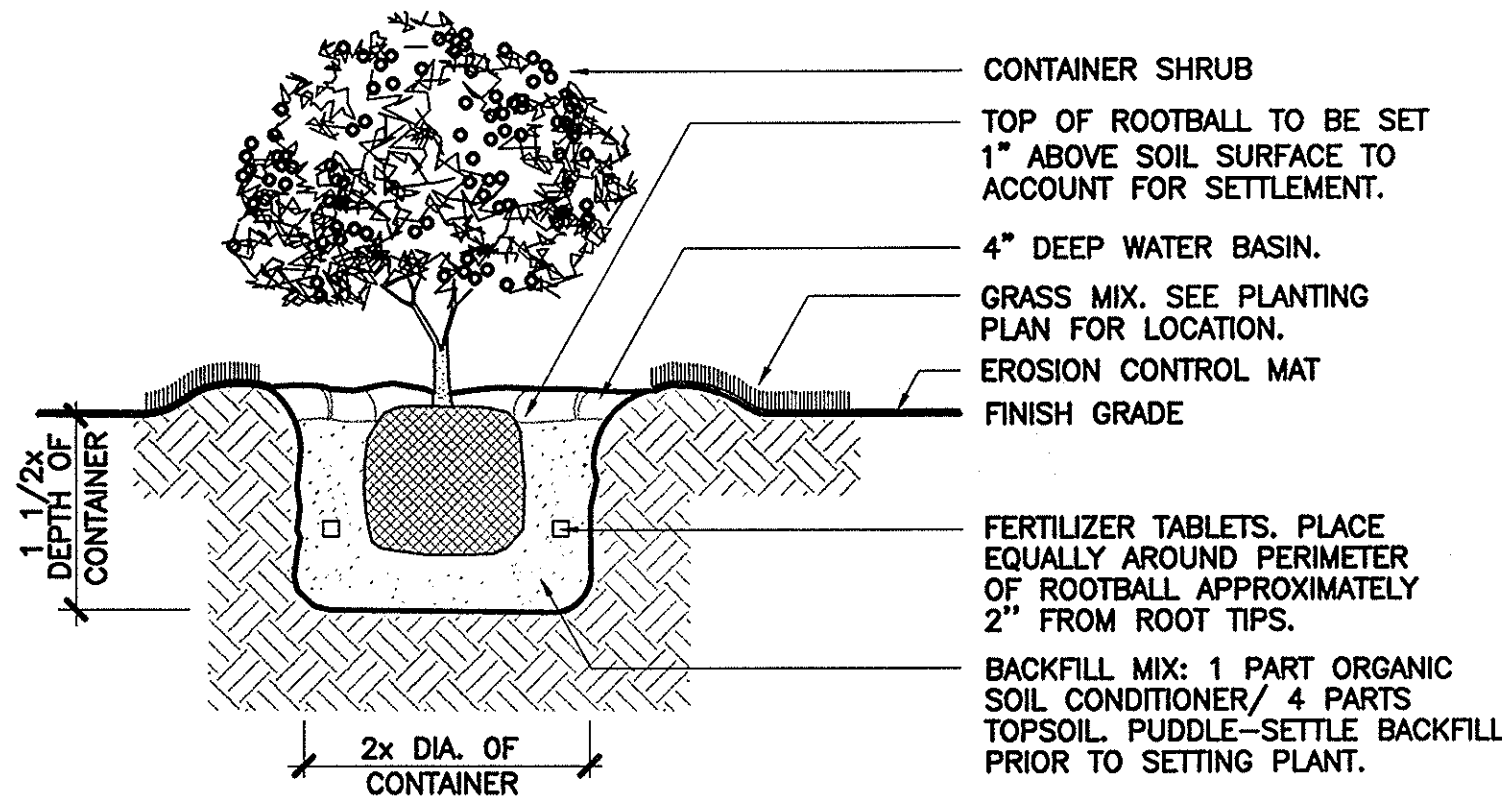


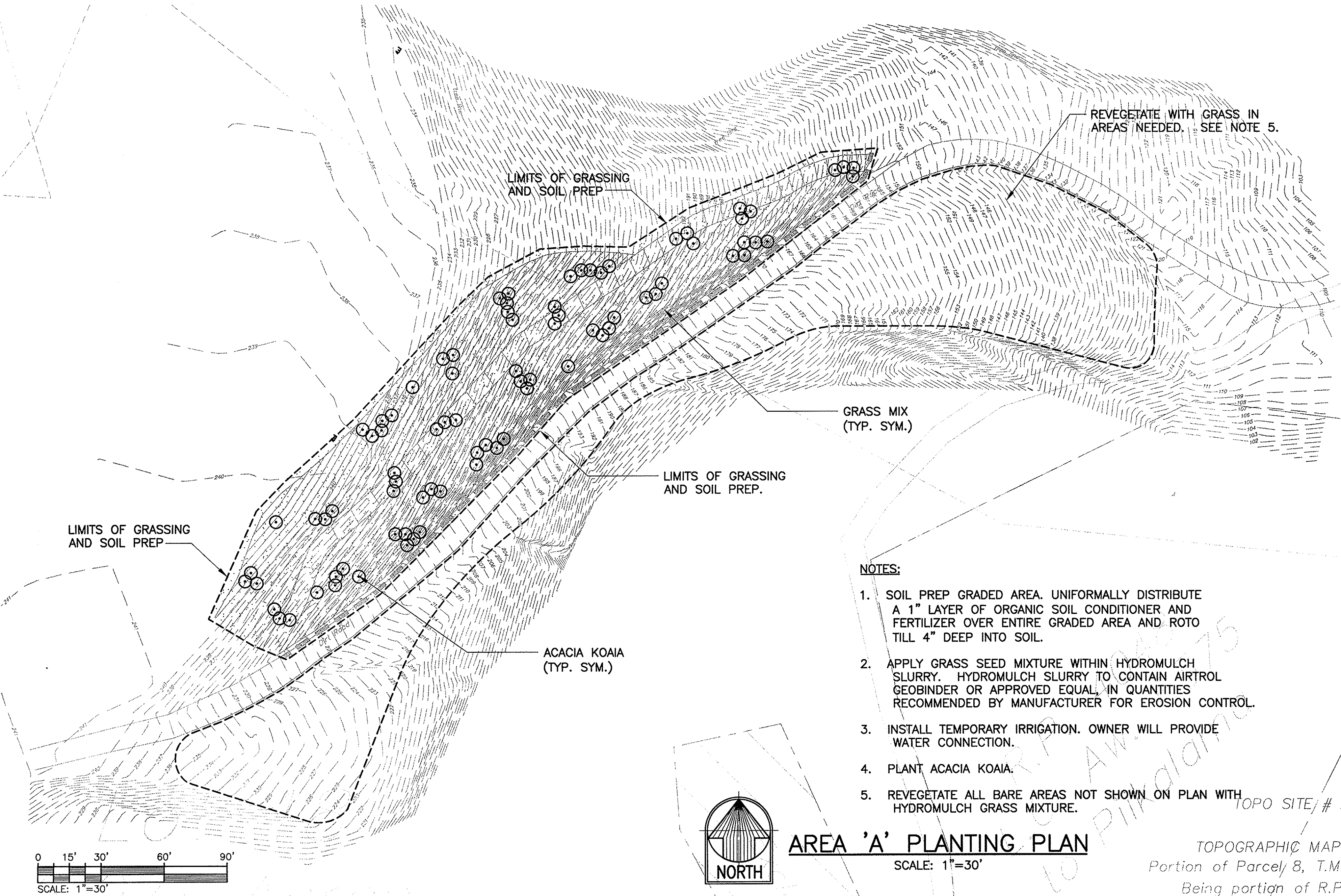
LANDSCAPE MATERIAL LIST FOR AREA 'A'					
Qty	Botanical Name	Common Name	Size	Height	Remarks
TREES					
83	ea ACACIA KOAIA	Acacia Koaia	5 gal.		
GRASS					
2,160	sf CYNODON DACTYLON, LOLIUM MULTIFLORUM	Grass Mix (Common Bermuda, & Annual Ryegrass)	Seed		Hydro mulch seed. Annual Ryegrass 3 lbs. per 1,000 s.f. Common Bermuda 4 lbs. per 1,000 s.f.
MISCELLANEOUS					
2,160	sf	SOIL PREPARATION (1" layer of organic soil conditioner & fertilizer to be spread and tilled 4" deep into soil)			

PLANTING NOTES

1. QUANTITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL PERFORM ITS OWN QUANTITY ESTIMATES FOR THE PURPOSES OF BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PLANTS AND OTHER MATERIALS IN THE QUANTITIES NECESSARY TO COMPLETE THE INSTALLATION AS SHOWN ON THE DRAWINGS.



1 SHRUB PLANTING DETAIL
L-1 NOT TO SCALE



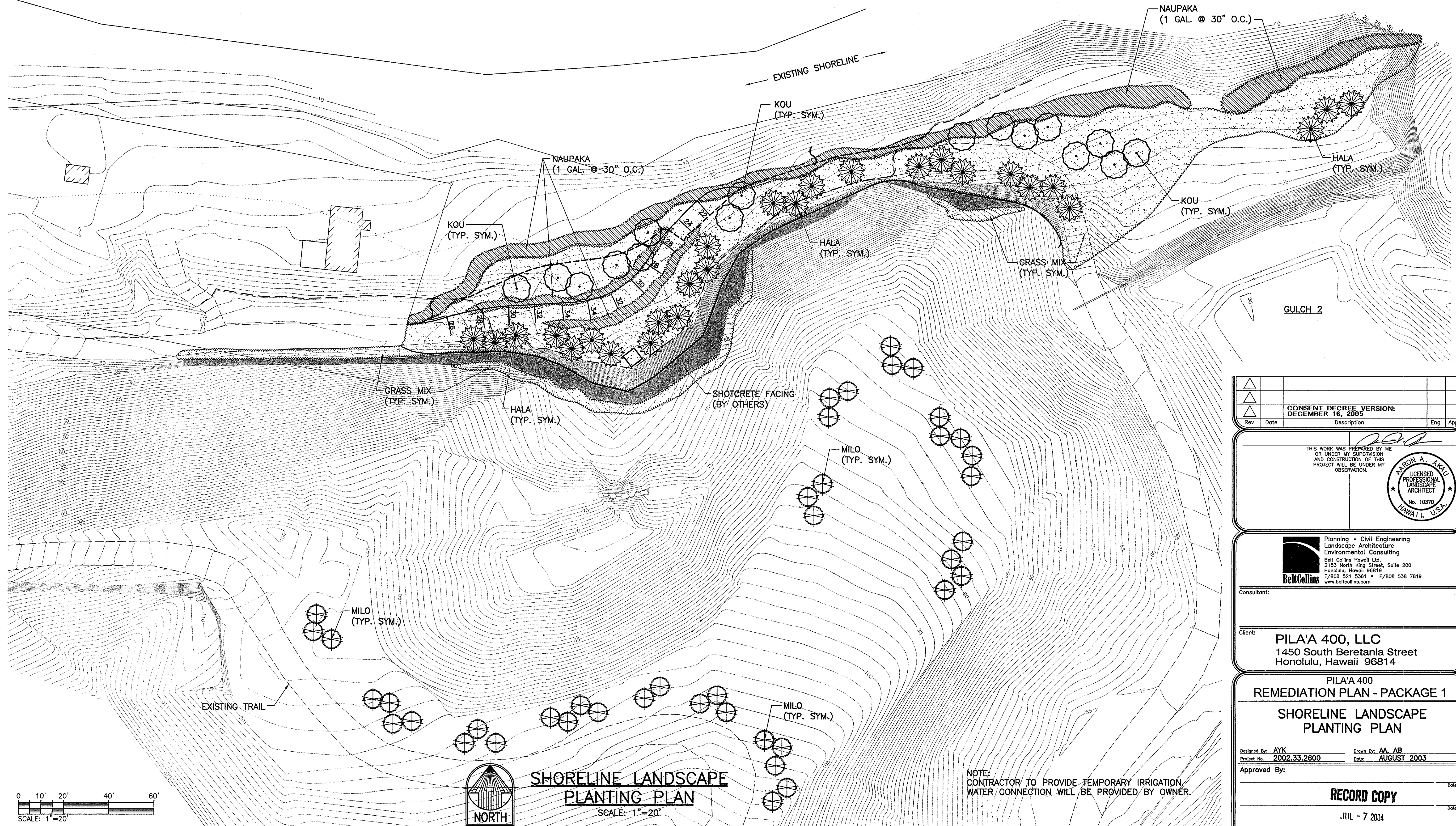
- NOTES:
1. SOIL PREP GRADED AREA. UNIFORMLY DISTRIBUTE A 1" LAYER OF ORGANIC SOIL CONDITIONER AND FERTILIZER OVER ENTIRE GRADED AREA AND ROTO TILL 4" DEEP INTO SOIL.
 2. APPLY GRASS SEED MIXTURE WITHIN HYDROMULCH SLURRY. HYDROMULCH SLURRY TO CONTAIN AIRTROL GEOBINDER OR APPROVED EQUAL IN QUANTITIES RECOMMENDED BY MANUFACTURER FOR EROSION CONTROL.
 3. INSTALL TEMPORARY IRRIGATION. OWNER WILL PROVIDE WATER CONNECTION.
 4. PLANT ACACIA KOAIA.
 5. REVEGETATE ALL BARE AREAS NOT SHOWN ON PLAN WITH HYDROMULCH GRASS MIXTURE.

AREA 'A' PLANTING PLAN

SCALE: 1"=30'

TOPOGRAPHIC MAP
Portion of Parcel 8, T.M.
Being portion of R.P

CONSENT DECREE VERSION: DECEMBER 16, 2005			
Rev	Date	Description	Eng App
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			
AARON A. AKU LICENSED PROFESSIONAL LANDSCAPE ARCHITECT No. 10370 HAWAII, U.S.A.			
Bett Collins Planning • Civil Engineering Landscape Architecture Environmental Consulting Bett Collins Hawaii Ltd. 2153 North King Street, Suite 200 Honolulu, Hawaii 96819 7/808 521 5361 • F/808 538 7819 www.bettcollins.com			
Consultant:			
Client: PILA'A 400, LLC 1450 South Beretania Street Honolulu, Hawaii 96814			
PILA'A 400 REMEDATION PLAN - PACKAGE 1 AREA 'A' PLANTING PLAN			
Designed By: AYK Project No.: 2002.33.2600		Drawn By: AA, AB Date: AUGUST 2003	
Approved By:			
RECORD COPY			
JUL - 7 2004			
FILE	POCKET	FOUNDER	NO.



Rev	Date	Description	Eng	App
1	12/16/05	CONSENT DECREE VERSION: DECEMBER 16, 2005		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

AARON A. AKAI
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 10370
HAWAII, U.S.A.

Belt Collins Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
Belt Collins Hawaii Ltd.
2155 North King Street, Suite 200
Honolulu, Hawaii 96819
T/808 521 5361 • F/808 538 7819
www.beltcollins.com

Consultant:

Client: **PILA'A 400, LLC**
1450 South Beretania Street
Honolulu, Hawaii 96814

**PILA'A 400
REMEDIATION PLAN - PACKAGE 1
SHORELINE LANDSCAPE
PLANTING PLAN**

Designed By: **AYK** Drawn By: **AA, AB**
Project No. **2002.33.2600** Date: **AUGUST 2003**

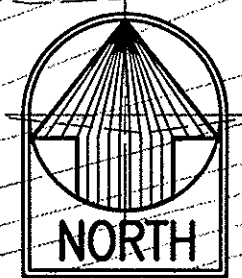
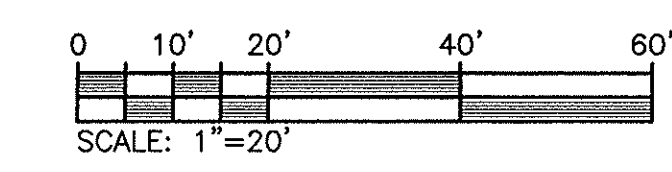
Approved By: _____ Date: _____

RECORD COPY

JUL - 7 2004

FILE	POCKET	FOLDER	NO.
------	--------	--------	-----

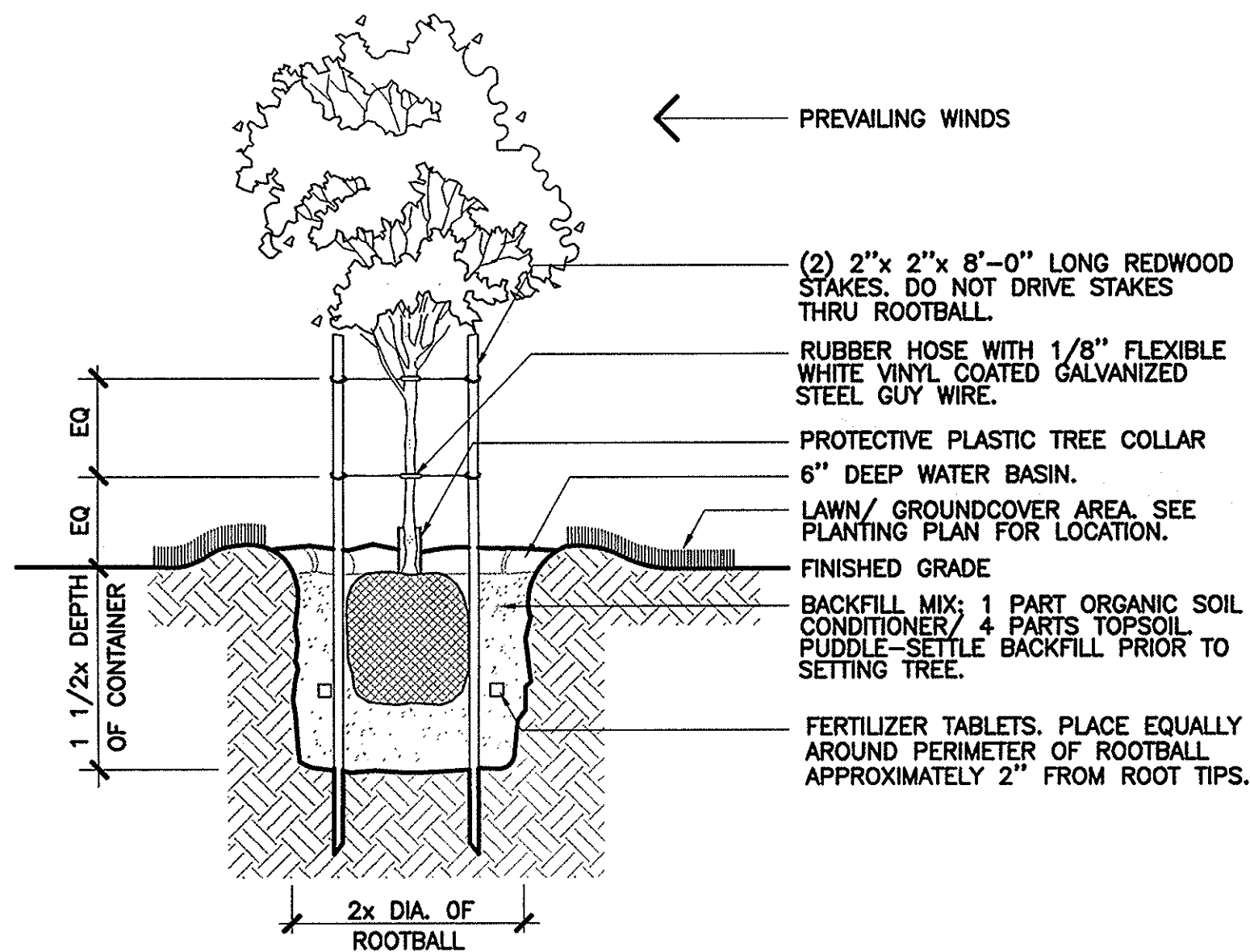
Fr. 09 Jul 2004 - 9:44am
L:\Pila'a 2002\332600_pila'a\cadd\sheds\Construction Plans\L-002.dwg
HALF SIZE TRIM LINE FOR 11"x17"



**SHORELINE LANDSCAPE
PLANTING PLAN**
SCALE: 1"=20'

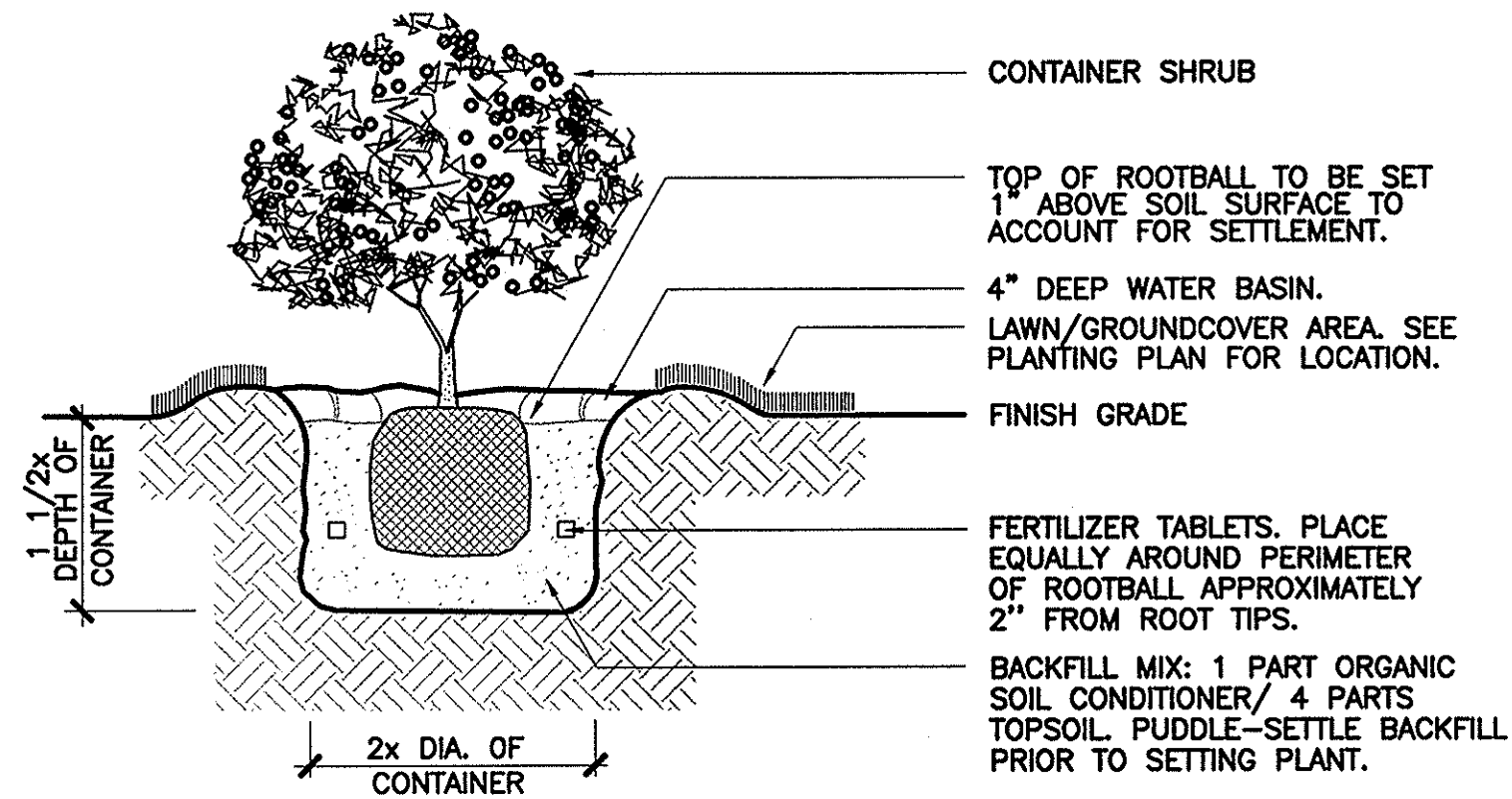
NOTE:
CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION.
WATER CONNECTION WILL BE PROVIDED BY OWNER.

Trim: 22"x36"



CONTAINER TREE

1
L-3
PLANTING & STAKING DETAIL
NOT TO SCALE



2
L-3
SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE MATERIAL LIST							
Qty		Botanical Name	Common Name	Size	Caliper	Height	Remarks
TREES							
16	ea	CORDIA SUBCORDATA	Kou	15 gal.	2"	6' ht.	4' spread
27	ea	PANDANUS ORDORATISSIMUS	Hala	15 gal.		4' ht.	
42	ea	THESPIA POPULNEA	Milo	15 gal.		4' ht.	
SHRUBS							
560	ea	SCAEVOLA SERICA	Naupaka	1 gal.		2' ht	30" o.c. Bushy
GRASS							
18,300	sf	CYNODON DACTYLON, LOLIUM MULTIFLORUM	Grass Mix (Common Bermuda, & Annual Ryegrass)	Seed			Hydro mulch grass mix. See Planting Notes for application rate

PLANTING NOTES

- QUANTITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL PERFORM ITS OWN QUANTITY ESTIMATES FOR THE PURPOSES OF BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PLANTS AND OTHER MATERIALS IN THE QUANTITIES NECESSARY TO COMPLETE THE INSTALLATION AS SHOWN ON THE DRAWINGS.
- GRASS MIXTURE WILL CONSIST OF:
ANNUAL RYEGRASS 3 LBS. PER 1,000 S.F.
COMMON BERMUDA 4 LBS. PER 1,000 S.F.
- FOR ELEVATIONS BELOW +26', HYDROMULCH GRASS MIXTURE TO CONTAIN AIRTROL GEOBINDER OR APPROVED EQUAL. FOR ELEVATIONS ABOVE +26', USE STANDARD HYDROMULCH GRASS MIXTURE.
- REVEGETATE ALL BARE AREAS (ABOVE ELEVATION +26') NOT SHOWN ON PLAN WITH STANDARD HYDROMULCH GRASS MIXTURE.
- REVEGETATE ALL BARE AREAS (BELOW ELEVATION +26') NOT SHOWN ON PLAN WITH AIRTROL GEOBINDER HYDROMULCH GRASS MIXTURE.

PLANTING SPECIFICATIONS

PART 1 - GENERAL

1.01 CONDITIONS

- A. All the applicable requirements of the General Requirements and Covenants and the General Conditions apply to the Work in this Section.

1.02 DESCRIPTION OF WORK

- A. Section Included: Provide planting work complete.

1.03 SUBMITTALS

- A. Construction Schedule: At the preconstruction meeting, provide Owner a written projected planting schedule noting the estimated completion date, number of working days required, and any special coordination requirements.

1.04 MATERIALS DELIVERY AND STORAGE

- A. Protect plants in transit and after delivery to the site. Plants with broken branches or injured trunks will be rejected. Remove rejected material from the site immediately.

1.05 JOB CONDITIONS

- A. Acceptance of Previous Work: Inspect and accept the condition of the site relative to this Section before commencing with this work. If not acceptable, notify the Owner in writing. By proceeding with the work, the Contractor indicated his acceptance of all previous related work.
- B. Meet on Site: Prior to commencing work, meet with the Owner and other concerned parties on site to review the work.
- C. Protection:
- Provide necessary safeguards and exercise caution against injury or defacement of existing site improvements.
 - Be responsible for any damage resulting from landscape planting operations. Repair all damage to return the area to the previous condition.
- D. Clean Up: Keep areas of work clean, neat, and orderly at all times. Clean construction areas at the end of each day, including during planting and maintenance operations.

1.06 WARRANTY

- A. Plant Material
- Warrant in writing all plant materials for a period of one year from the date of final acceptance against improper installation, and defective, unsound, or diseased conditions that may appear.
 - Upon receipt of written notice from the Owner of the death of any warranted plant materials during the warranty period, promptly replace the subject plant materials with same species as originally planted, and of a size as originally planted. Replacement is subject to all requirements of the Specifications.
 - When plants are replaced, advise the Owner, in writing, of the necessary establishment maintenance which must be performed.
 - The expense of replacement shall be borne by the Contractor.

- B. Liability: The liability under the warranty includes the repair of damage to the work of other contractors, or damage to the Owner's property caused by the failure of this work. All of the provisions of this Section apply to work performed to satisfy the requirements of the warranty.

PART 2 - MATERIALS

2.01 PLANT MATERIALS:

- Furnish plant materials with a normal habit of growth, and sound, healthy, vigorous and free from insect infestation.

2.02 FERTILIZERS AND SOIL CONDITIONERS: First-quality, standard-brand, agricultural products.

A. Chemical Fertilizer:

- Controlled-Release Fertilizer: 16-7-12 (N-P-K) with controlled-release fertilizer tablets of 5 and 21 grams, 10-10-5 (N-P-K).

B. Organic Soil Conditioner:

- "Eko-Compost", or other acceptable equal organic material.

2.03 BACKFILL MIX: 4 parts of Imported Planting Soil and 1 part of approved Organic Soil Conditioner.

2.04 WATER: Unless noted otherwise, irrigation water will be readily available at no additional expense.

PART 3 - EXECUTION

3.01 SOIL AND DRAINAGE CONDITIONS:

- A. Notify Owner in writing of soil or drainage conditions encountered during planting operations which the Contractor considers detrimental to growth of plant material. Include a cost proposal for the correction of the problem. Obtain approval before proceeding with work.
- B. If drainage conditions of plant pits appear unsatisfactory, test drainage by filling with water. Bring to the attention of the Owner conditions permitting the retention of water in planting pit for an excessive period of time.

3.02 HANDLING PLANTS:

- A. Handle plants in a manner to avoid any damage to the plant.
- B. Protect plants at all times from sun or drying winds. If plants cannot be planted immediately upon delivery, keep in the shade, protect, and water adequately.

3.03 PLANTING PITS:

- A. Backfilling:
- Backfill the planting holes with the special backfill mix herein specified.
 - Water - settle backfill thoroughly or compact by other acceptable method prior to planting, so plants do not settle.

- B. Fertilizer Tablets: Prior to filling each planting hole with backfill mix, place tablets in holes per manufacturer's written recommendations.

3.04 PLANTING OPERATION:

A. General:

- Do not install plant materials until landscape irrigation systems have been installed and tested.
- Do not plant during unfavorable weather.
- Make sure soil is at an optimum moisture content for planting. Do not plant in dry or muddy soil.

B. Container and Larger Plants

- Staking and Guying: Immediately after planting, stake and/or guy all trees.

3.05 PRUNING AND SPRAYING:

- A. Prune plants according to standard horticultural practice to preserve the natural character of the plant and to accomplish its use in the landscape design.
- B. Remove dead wood, suckers, and broken or badly bruised branches.
- C. Remove other branches as directed by Owner.
- D. Use only clean, sharp tools.
- E. Immediately after planting operations are complete, dress off pits to achieve a neat appearance.

3.06 CLEANUP: Remove surplus materials, and other debris from site. Neatly dress and finish planting areas. Flush paved areas and similar surfaces clean to the satisfaction of the Owner.

3.07 PLANTING MAINTENANCE:

- A. Maintain all plants and planted areas in optimum growing condition and appearance.
- B. Begin maintenance with the delivery of the first plant materials to the site, and continue for 1 year until the acceptance at the final inspection.
- C. Maintenance includes, but is not limited to:
- Irrigate planting areas as required to insure active growth, keeping areas moist but not saturated.
 - Inspect all plants for disease or insect damage weekly. Treat affected material immediately.
 - Remove damaged or diseased growth from trees.
 - Immediately remove dead or dying plants not in a vigorous thriving condition. Replace with the same species and size as originally planted.
 - Restake, tighten, repair guys, and reset to proper grades or upright position any plants that are not in their proper growing position.

3.08 FINAL INSPECTION:

- A. At the end of the formal 1 year maintenance period, hold the Final Inspection.
- B. The Owner, or their representatives, shall be present at the inspection.

Rev	Date	Description	Eng	App
1				
2				
3				

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

AXON A. AKAU
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 10370
HAWAII, U.S.A.

BeltCollins
Planning • Civil Engineering
Landscape Architecture
Environmental Consulting
Belt Collins Hawaii Ltd.
2153 North King Street, Suite 200
Honolulu, Hawaii 96819
P/808 521 5361 • F/808 538 7819
www.beltcollins.com

Consultant:

Client:

PILA'A 400, LLC
1450 South Beretania Street
Honolulu, Hawaii 96814

PILA'A 400
REMEDIATION PLAN - PACKAGE 1
SHORELINE
PLANT LIST, DETAILS,
AND NOTES

Designed By: AYK
Project No. 2002.33.2600
Drawn By: AA, AB
Date: AUGUST 2003

Approved By:

RECORD COPY

JUL - 7 2004

FILE	POCKET	FOLDER	NO.